

GINSBURG, A.S., dotsent, kandidat tekhnicheskikh nauk.

Theoretical principles of bread baking. Trudy MTIPP 2:357-382
'52. (Baking) (MLRA 9:2)

Doctor of Technical Sciences, Sushilovskiy Yakovlevich Yakovlevich
(Chief of the Road Building Institute), Wologda prov.

The booklet presents the theoretical bases of the building process, and the basis for the building schedule. The booklet includes a classification, general survey, and description of the design of even units of the broad building industry, including economic-technical indexes for the basic types of units, the method of analytical and graphical construction of the plan of a unit, building equipment, and verification of the plan of a unit.

The booklet is intended for use in the "even-building", and related to the building of the building industry.

SC: Scientific (Scientific), v. 337, 1957, 1958, (1-100)

GINKBURG, A.S.; KHMEL'NITSKAYA, A.Z., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor

[Drying apparatus for the bread baking industry] Sushil'nye ustanovki khlebopekarnoi promyshlennosti. Moskva, Pishchepromizdat, 1954. 195 p. (MLRA 7:10)

(Drying apparatus)

(Bakers and bakeries--Equipment and supplies)

Ginsburg, H. S.

1. A new method in the study of heating
curves of starch. H. S. Ginsburg, V.
K. Ginsburg, and A. B. Ginsburg.
J. Polym. Sci. A-1, No. 3, 55-6, 1963. Ref. 2. MD
The authors report on the endothermal effect was ob-
served in the gelatinization of starch. Heating curves for
starch and starch for baking are given. M. Hoesch

③

LYKOV, A.V.; AUERMAN, L.Ya.; GINZBURG, A.S.

Investigating the heat and mass exchange in capillary-porous
bodies with methods based on the theory of similitude as applied
to the processes of drying and baking. Trudy MTIPP 4:5-18 '56.
(MLRA 9:10)

(Heat--Transmission) (Baking)

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GUEZBURG, A.S.; ZHURAVLEV, N.N.;
PALUNINA, Z.P.; MINAYENKOVA, V.S.; KOZHEVNIKOVA, Ye.P.;
SUVOROVA, M.A.

Use of electric contact heating for preparing scalded wheat
flour mash and for investigating the saccharification of mash.
Trudy MTIPP 4:62-70 '56. (MLRA 9:10)

(Dough) (Starch) (Amylases)

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
KHECHUASHVILI, A.Z.; KVETNIY, P.M.

Zwieback from rye bread baked by electric contact heating.
Trudy MTIP 4:82-85 '56.

(MLRA 9:10)

(Bread)

SHUMAYEV, Fedor Grigor'yevich; MAKLYUKOV, Il'ya Ivanovich; MIKHELEV, A.A.,
dotsent, retsenzent; NOVITSKIY, B.F., dotsent, retsenzent;
GINZBURG, A.S., professor, spetsredaktor; KHMELE'NITSKAYA, A.Z.,
redaktor; KISINA, Ye.I., tekhnicheskoy redaktor

[Industrial ovens for baking bread and confectionery] Promyshlennyye
pechi khlebopekarnogo i konditerskogo proizvodstva. Moskva,
Pishchepromizdat, 1957. 353 p. (MIRA 10:11)
(Ovens)

GINZBURG, Abram Solomonovich; KRASNOPEVTSEY, N.I., retsenzent.; ZHMEL'NITSKAYA,
A.Z., red.; DOBUZHINSKAYA, L.V., tekhn. red.

[Modern types of bakery ovens] Sovremennye konstruktsii khlebo-
pekarnykh pechei. Moskva, Pishchepromizdat, 1958. 154 p.
(MIRA 11:11)

(Ovens)

GIRZHOY, Arkadiy Petrovich, kand. tekhn. nauk.; SAMOCHETOV, Viktor Fedorovich, inzh;
GINZBURG, A.B., prof., doktor tekhn. nauk, red.; KEYZER, V.A., red.;
GOLUBOVKA, L.A., tekhn. red.

[Grain drying and grain dryers] Zernosushenie i zernosushilki.
3. perer. i dop. izi. Moskva, Izd-vo tekhn. i ekon. kit-ry po
voprosam sukhomol'no-krupianoi, kombikormovoi promyshl. i elevatorno-
skladsakogo khoz., 1958. 322 p. (MIRA 11:12)
(Grain--Drying)

REPENKO, A.T., red.; GUREVICH, M.S., red.; GINZBURG, A.S., red.;
YERMOLAYEV, V.V., red.; ZHUK, A.A., red.; USPENSKIY, V.V.,
red.; MASLOV, N.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.;
KORNEYEVA, V.I., tekhn.red.

[Section on the economics of the construction industry]
Sektzia ekonomiki stroitel'stva. Moskva, Gosstroizdat,
1958. 369 p. (MIRA 12:6)

1. Vsesoyuznoye soveshchaniye po stroitel'stvu, 3rd, Moscow,
1958.

(Construction industry--Costs)

LEVIN, David Markovich; GINZBURG, A.S., prof., doktor tekhn.nauk, spetsred.;
KEMEL'NITSKAYA, A.E., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Thermodynamic theory and design of drying apparatus] Termo-
dinamicheskaya teoriya i raschet sushil'nykh ustanovok. Moskva,
Pishchepromizdat, 1958. 166 p. (MIRA 12:2)
(Thermodynamics) (Drying apparatus)

GINZBURG, Abram Solomonovich; LYKOV, A.V., akademik, retsenzent;
KHIMEL'NITSKAYA, A.Z., red.; MURASHOVA, O.I., red.; SOKOLOVA,
I.A., tekhn.red.

[Drying of food products] Sushka pishchevykh produktov.
Moskva, Pishchepromizdat, 1960. 683 p.

1. AN BSSR (for Lykov).

(Food--Drying)

(MIRA 14:4)

GINZBURG, A.S.

"Processes and apparatus of food industries" by V.N.Stabnikova,
V.D.Popova, F.A.Red'ko. Reviewed by A.S.Ginzburg. Sakh.prom. 34
no.10:74-77 O '60. (MIRA 13:10)

(Food industry--Equipment and supplies)
(Stabnikova, V.N.) (Popova, V.D.) (Red'ko, F.A.)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AUERMAN, L.Ya.

Infrared radiation as a method for the intensification of the
baking process. Trudy MTIPP 16:30-42 '60. (MIRA 16:6)
(Baking)
(Infrared rays--Industrial applications)

GINZBURG, A.S.; BAB'YEV, N.N.; MIKHAYLOVSKAYA, Ye.I.

Experimental study of the contact drying process of some
materials of the canning industry in a single-roller vacuum
dryer. Trudy MTIPP 16:57-66 '60. (MIRA 16:6)

(Food, Concentrated)
(Drying apparatus)

ROSLYAKOVA, O.I.; GLINZBURG, A.S.; A. L. L. Ya.

Investigating the bread baking process in the electric fields
of high frequency currents combined with the application of
infrared rays. Trudy NTIPP 1964-1965 '60. (MIRA 1965)

(Bread) (Electric ovens)
(Infrared rays--Industrial applications)

Report presented at the Conference on Heat and Transfer,
Moscow, USSR, 5-10 June 61.

RM-2850
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270. V. I. Borovoy, I. K. Tuma, Pattern of Forces at Heat-Dynamic Load
Flow.
271. A. J. Ede, The Heat Transfer Coefficient for Flow in a Pipe.
272. S. I. Bril'yanov, I. I. Stetsenko, Experimental Investigation of Heat
and Temperature Jump at Perfect Air Flow over the Wall of a Tube.
273. A. M. Zaslavskiy, On Some Results of the Investigation of Heat Transfer
by Natural Convection.
274. A. S. Gushakov, O. I. Rukhovich, Heat Transfer at the Process of
Active Convective Flow by Heated Gas.
275. V. A. Buzin, Investigation of the Heat Transfer Coefficient on Water
Temperature Distribution in the Assembly of the Water-Cooled Piston
Water-Cooled Piston.
276. V. I. Gubarev, S. P. Yul'yanov, V. I. Sladkov, Investigation of
Heat Transfer by Liquid with Heat-Absorbing Droplets of Fuel and
Salt Crystals.
277. E. M. Palamarchuk, Some Principal Problems of Critical Methods of
Heat Transfer Surface Investigation.
278. P. J. Durnell, Application of the Thermodynamic Similarity Principles
for Heat Transfer Calculations.
279. B. E. Medvedev, Generalization of the Empirical Law of Cooling of Boilers.
280. V. K. Gubarevskiy, Investigation of Heat Transfer Through the Wall
with Longitudinal Flow at Surface Folding.
281. A. V. Kuznetsov, Investigation of Convective Heat Transfer in
Aluminum Pipes with Film.
282. G. I. Shchegolev, Some Problems of Heat and Mass Transfer Studied in
the Natural Convection of Gases and Liquids.
283. I. T. Zaslavskiy, Investigation of Heat Transfer Between Gas and Solid
Surfaces by Means of Simultaneous Heat Conduction and Convection.
284. M. V. Pukhov, S. G. Dzhurav, The Process of Thermal and Diffusive
Relaxation of an Evaporating Film.
285. Z. I. Gurevich, M. E. Shvachkin, Critical Heat Flow at Vapor Boiling
in Tubes.
286. I. G. Maslennikov, Application of the Correspondence State for Heat
Transfer Calculation at Transition of a Phase.
300. A. S. Gushakov, Heat Transfer in the Process of Boiling.

GINZBURG, A.S.; REZCHIKOV, V.A.

Basic aerodynamic and structural characteristics of a pseudo-
liquefied layer of grain. Inzh.-fiz.zhur. no.5:55-60 My '62.
(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov yego pererabotki, Moskva.
(Fluidization)

GINZBURG, A.S.; REZCHIKOV, V.A.

Method for calculating the duration of grain drying in a pseudo-fluidized bed. Inzh.-fiz.sbur. 5 no.8:40-47 Ag '62.
(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki, Moskva.
(Grain--Drying) (Fluidization)

GINZBURG, A.S.; DUBROVSKIY, V.P.

Determination of the moisture diffusion coefficient for grainy materials. Inzh.-fiz.zhur. 6 no.10:27-32 0 '63. (MIRA 16:11)

1. Tekhnologicheskiiy institut pishchevoy promyshlennosti, Moskva.

LEBEDEV, Panteleymon Dmitriyevich; MIKHAYLOV, N.M., prof., retsenzent;
~~GINZBURG, A.S.~~, prof., retsenzent; LIKOV, M.V., dots.,
nauchnyy red.; LEONCHIK, B.I., dots., nauchnyy red.; LARIONOV,
G.Ye., tekhn. red.

[Calculation and design of drying systems] Raschet i proektiro-
vanie sushil'nykh ustanovok. Moskva, Gosenergoizdat, 1963. 319 p.
(MIRA 16:3)

(Power engineering) (Drying)

GINZBURG, A.S.; PODOL'SKIY, M.V.

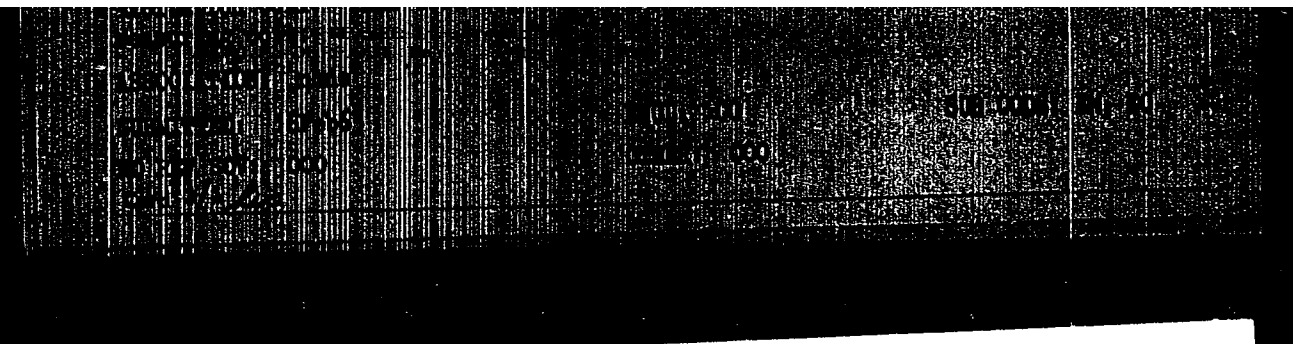
Investigating heat and mass transfer in the process of sublimation
drying of liquid materials. Inzh.-fiz. zhur. 7 no.5:28-33 My '64.
(MIRA 17:6)

1. Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva.

UKOLOV, Vladimir Stepanovich; GINZBURG, A.S., doktor tekhn. nauk,
prof., retsenzent; KAZAKOVA, Ye.D., red.

[Corn drying] Sushka kukuruzy. Moskva, Kolos, 1964. 303 p.
(MIRA 18:9)





Investigating optical properties of materials used in the construction of
ion. Ion. -12- 2000 11-12-13 1977 (MAY 18/7)

i. Tekhnologicheskoy im. I. I. Vekshina. Moscow.

ACC NR: AM6026324 (A) Monograph

UR/

Ginzburg, Abram Solomonovich

Infrared technology in the food industry (Infrakrasnaya tekhnika v pishchevoy promyshlennosti). Moscow, Izd-vo "Pishchevoy promyshlennost'", 1965. 407 p. illus., biblio., tables. 3300 copies printed.

TOPIC TAGS: ~~biological sciences~~, food technology, ^{IR}~~infrared~~ radiation, food preservation

PURPOSE AND COVERAGE: Elements of the theory and technology of infrared heating are set forth. The fundamentals of the theory of heating during infrared drying are discussed. Special emphasis is placed on radiative (optical) characteristics of exposed materials. A considerable part of the book is devoted to the technology of infrared heating and its application to food processing. Data for this text were obtained from the Soviet and foreign scientific literature and from research done by various institutes as well as investigations conducted by the author and his students. The book is intended for engineers and scientists specializing in research and application of infrared radiation. The book may also prove beneficial to students in technical schools interested in the food processing industry.

Cord 1/2

UDC: 664.66.085.1

ACC NR: AM6026324

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OTH REF: 046/

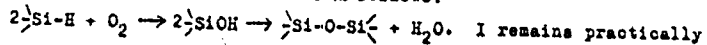
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B110/B101

AUTHORS: Kleynovskaya, M. A., Sobolevskiy, M. V., Mikhayev, Ye. P.,
Mul'nova, G. N., Ginzburg, A. S.

TITLE: Purification of industrial methyl-phenyl dichloro silane
obtained by the method of catalytic dehydrocondensation

PERIODICAL: Plastikheskiye massy, no. 5, 1962, 19-22

TEXT: The composition of industrial methyl-phenyl dichloro silane (I) and its purification from impurities was studied. These are: 0.5-2% dimethyl phenyl chlorosilane (boiling point 195°C), 1-3% phenyl trichlorosilane (boiling point 201.5°C) and 1-3% compounds with hydrogen-silicon bond (methyl phenyl chlorosilane, phenyl dichlorosilane, phenyl chlorosilane etc.). Purification combines separation methods with rectification processes. When treating industrial I with dry air at 150°C, the impurities are oxidized at the SiH bond to high-boiling siloxanes, which can easily be separated from I as follows:



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Purification of industrial ...

unchanged. At 150°C, air was ducted through at a rate of 250-260 liter/hr and a ratio of 4 liter air per g I. In order to separate phenyl trichlorosilane from I, partial esterification with isobutyl alcohol (6-wt% of the weight of the fraction) was carried through at 40-60°C with subsequent heating to 120-150°C. Dimethyl phenyl chlorosilane was separated from I in a packed column with 25 theoretical plates. The fraction with dimethyl phenyl chlorosilane, ~26-35% of the total charge, may be used for the production of organosilicon varnishes, in the same way as I. I is then distilled off at a reflux ratio of 15-20. The residue of 3-6%, containing polysiloxanes may also be used for organosilicon varnishes. Purified I had the following characteristics:

n_D^{20} = 1.5182-1.5186; d_4^{20} = 1.1762-1.1782; Cl content = 37.00-37.39%;
Si content = 14.58-14.82%, MW_D = 49.23-49.28. There are 3 tables.

Card 2/2

GINZBURG, A.S.

First International Congress on Chemical Engineering (CHISA)
held at Brno. Inzh.-fiz.zhur. 6 no.2:133-138 F '63.
(MIRA 16:1)

(Chemical engineering—Congresses)

B 2

2-4

Data on determination of ear in Triton taeniatus. A. S. Gerasimov (Compt. rend. Acad. Sci. U.R.S.S., 1939, 21, 370-373).—Ectoderm from the ear region of an embryo of T. taeniatus, at the stage of an early or middle neurula, transplanted to the eye region of an older embryo of the same species, forms only undifferentiated epithelial vesicles. The same material forms a lens if put in contact with the optic cup. At the later stages of late neurula and of closure of the neural folds, the same ectodermal tissue is sp. and, when transplanted to the eye region, forms vesicles with characteristic ear structure, e.g., endolymphatic duct. W. F. F.

ASR-51A METALLURGICAL LITERATURE CLASSIFICATION

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PRECEDENCE AND PRIORITY MARKS

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A-4

Investigation of the retina in subject A. S. Oshary
in the cond. Acad. Sci. USSR, 1964, 140-149. Experi-
ments are reported which show the material of the future
retina in the embryo of the chick at an early stage.
The embryonic development of the retina is capable
of forming the structure of the retina which will develop in the
adult. The direction of development is in contact with the retina. J. D. B.

ASB-514 METEOROLOGICAL LITERATURE CLASSIFICATION

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Zymonucleic acid of the protozoan cell. (C. I. Munkin and A. B. Clardy. *Compt. rend. acad. sci. U.R.S.S.* 42, 341-347 (1941).)—Two components are responsible for the basophilic nature of the plasma of *Paramecium*, one sol. in hot dist. water, the other is made sol. by ribonucleases. The latter component is either identical with or closely related to *zymonucleic acid*. The distribution and agent of nucleic acid varies in individual *Paramecium*. The nucleic acid or at least, they contain a considerable const. of sym. di. whereas the micronucleus contains an *asymonucleic* nucleic. The ribonuclease employed was an *asymonucleic* fresh beef pancreas; the expts. were made on dry smears of *Paramecium* fixed with 50% alc. Staining was performed with methyl green pyronine. At At Bath

PROCESSES AND PROPERTIES INDEX

Ca

Hydrophilic nature of protoplasm in protozoa as connected with the occurrence in the cell of ribonucleic acid. G. I. Harkin and A. S. Ginsburg. *Compt. rend. acad. sci. U.S.S.R.* 43, 122-6 (1944). The hydrophilic nature of the protoplasm of the *Paramecium*, *Ulpina ranarum*, amoebae of the linnaea type, *Trypanosoma lewisi*, oocytes of *Paramecium* and *Plasmodium vivax* is based largely on the presence of varying concentrations of cytoplasmic nucleic acid. Also in *Doklady Akad. Nauk. S.S.S.R.* 43, 126-9 (1944). Maurice M. Rath

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GINZBURG, A.

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Transplantation and removal of organ rudiments in embryos of *Ambystoma tigrinum*. A. Ginzburg and T. Dettlaff (Compt. rend. Acad. Sci. U.S.S.R., 1964, vol. 199, pp. 308-312). The following experiments were carried out on the early embryos of this primitive fish: (1) removal and grafting of the dorsal lip of the blastopore; (2) removal of the embryonic eye; (3) removal of hind brain region. The results indicate that the causal mechanisms operative in the holoblastic type of this species are largely the same as those demonstrated in other vertebrates.

J. D. B.

ADD. S.A. METEOROLOGICAL LITERATURE CLASSIFICATION

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GINZBURG, A.

22609. GINZBURG, A. Iz opyta kliniki erevanskogo zocvetinstituta. (lecheniye nezarnaznykh bolezney). Veterinariya, 1949, No. 7, S. 28-29.

SO: LETOIS' No. 20, 1949

DETLAF, T.A.; GINZBURG, A.S.

Analysis of sources of extrusion of eggs of the stellated sturgeon during
the incubation period. Trudy Inst.morf.zhiv. no.5:184-201 '51.

(MLRA 6:9)

(Sturgeons)

GTRSP L Vol. 5-No. 1 Jan. 1952

Detlaf, T. A. and Ginzburg, A. S. (A. N. Severtsov Institute of Animal Morphology, U. S. S. R. Academy of Sciences). Sources of non-fertilizability of sturgeon eggs upon spawning in a laboratory. 1965. 8

zoology

Akademiya Nauk, S. S. S. R., Doklady Vol. 78, No. 5, 1151

728.7

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Zarodyshevoye razvitiye osetrovykh ryb (sevryugi, osetra, i belugi) v svyazi s voprosami ikh razvedeniya (Embryological development of sturgeons in connection with the problems of their breeding, by) T. A. Detlaf i A. S. Ginzburg. Moskva, Akademkniga, 1954.

215 p. illus., diags., tables.

"Literatura": p. 196 - (204)

At head of title: Akademiya Nauk SSSR. Institut Morfologii Zhivotnykh.

GINZBURG, A.S.

Variability in the location of fissural sulci in the eggs of sturgeons.
Dokl. AN SSSR 95 no.5:1117-1120 Ap '54. (MLRA 7:4)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR.
Predstavleno akademikom K.I.Skryabinym.
(Embryology--Fishes) (Sturgeons)

USSR/General Biology. Individual Development. Sex: 1 Cells. 15-4

Abs Jour : Ref Zhur-Biol., No 16, 1956, 71573

Author : Ginzburg, A. S.

Inst : AS USSR.

Title : Fatty Metabolism in the Ovocytes and Eggs of
the Starred Sturgeon.

Orig Pub : Dokl. AN SSSR, 1956, 111, No 1, 236-239

Abstract : Even before the accumulation of the yolk
during the process of dyeing with sudan
III and black sudan V, fatty impurities (FI)
develop in the young ovocytes (O) from the
ovaries of sturgeons in the II and IV stages
of maturity. In the smallest O, with a dia-
meter of 70-80 μ , there are some fatty drop-
lets located near the nucleus on one side.

Card : 1/3

USSR/General Biology. Individual Development. Sex : Colls. B 4

Abs Jour : Ref Zhur-Biol., No 16, 1950, 71573

of all the tract of their development into a period of slight growth (general for oogenesis and spermatogenesis) and a period of great growth, inherent only in oogenesis, in the course of which C accumulates nutrients of various kinds. -- G. N. Ignat'yeva

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GINZBURG, A. S.

"APPROVED FOR RELEASE" Thursday, September 26, 2002
"APPROVED FOR RELEASE" Thursday, September 26, 2002

CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3"

20-2-60/60

AUTHOR: Ginzburg, A. S.

TITLE: **Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa** (Monospermiya u osetrovykh ryb pri normalnom oplodotvorenii i posledatviya proniknoveniya v yai'tso sverkhchislennyykh spermiyev)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, No. 3, pp. 445-447 (USSR)

ABSTRACT: If the eggs of sturgeons are impregnated with strongly diluted sperm, then the development of the eggs, under favorable conditions, as a rule takes a normal course. They divide into 2, 4, 8 etc. blastomeres. On the other hand, if a weakly diluted sperm is used, there frequently occur disturbances in the process of egg division, supernumerous blastomeres are formed, and later many eggs perish. The author of the present paper assumes that in sturgeons, as well as in anurans, supernumerous blastomeres are caused by penetration of supernumerous sperms. However, in the sterlet observations were

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Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa

made which point exactly in the opposite direction. In order to find an answer to this question, eggs that had been impregnated under different conditions were investigated from a cytological point of view. The results obtained lead the author of the paper under review to the conclusion that normal impregnation in sturgeons is monospermous. Penetration of sperms in greater number, as in impregnation with weakly diluted sperm and at "dry" impregnation, represents a pathological polyspermy as it is accompanied by disturbances in the egg division and in the entire subsequent development. There are 1 figure (10 microreproductions), 1 table and 8 references, 7 of which are Soviet.

ASSOCIATION: Institute of Animal Morphology imeni A. N. Severtsov, AS USSR
(Institut morfologii zhivotnykh im A. N. Severtsova Akademii nauk SSSR)
PRESENTED: February 21, 1957, by I. I. Shmal'gauzen, Member of the Academy
SUBMITTED: February 12, 1957
AVAILABLE: Library of Congress
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AUTHOR
TITLE

Ginzburg, A.S.

The Time of Contact Establishment Between Sperm and the
Spermatozoon in Sturgeons.
(Vremya ustanovleniya kontakta spermii s yaytsom pri
oplodotvereni u osetrovykh ryb.)

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 4;
pp. 845-848 (USSR)

PERIODICAL

ABSTRACT

At it was shown earlier the fertilization of sturgeons is normally monospermic. In the case of spawn fertilization, with slightly diluted sperm fertilization by several spermatozoa was frequently observed. In order to understand the way of precaution against the penetration of excess sperms into the ovum under normal circumstances the initial stage of the process of fertilization must be studied precisely. This work aims at the investigation of the period from the time of the adding of sperm to the spawn to the contact between the sperms and the ova. For this purpose the author has investigated the sperms and observed the fertilized eggs; 2) he has fixed the passage for the cytological examination and observed the passage of the sperms through the little micropylar channels at different times after the fertilization. Sperms of the "water sturgeon" (*Acipenser stellatus* Pall.) and of the

CARD 1/4

The Times of Contact Establishment Between the Egg and the Sperm in Sturgeons.

Black Acov-Sea sturgeon (*Acipenser baeri* V. Marti) which were obtained by means of hypophyseal injections served for the experiments. Experiments for the inactivation of sperms. 7 different surface active preparations were tested. The washing powder "Novest" - Detergent was the most useful. It contains sulphoethers of the cetyl- and stearyl alcohol. This detergent reactivated sperms within less than 0,5 seconds without damaging the eggs. Thus, no fertilization took place in 2454 eggs investigated. An important part of the eggs were fertilized already during the first seconds after the adding of the sperm no matter whether the sperms were highly diluted or highly concentrated. The frequency of the cases of polyspermic fertilization increased rapidly in the first seconds after the fertilization. After the climax of the percentage of the fertilization the polyspermic fertilization ceased to increase. Results of the cytological investigation: The structure of the egg of the sturgeons and the fertilization process is described. The comparison of the knowledge of the structure and of the fertilization with the results of the above experiments led to the conjecture that the contact between the sperm and the cytoplasm of

CARD 2/4

described. ... contact of sturgeons ...
... or fibres with ... the sperm

The Time of Contact Establishment Between the Egg and the Spermatocyte
in Sturgeons. 20-4-60/60

There are 2 figures and 3 Slavic references.

ASSOCIATION:

Institute for Animal Morphology imeni A.N. Severtsov
AN USSR
(Institut morfologii zhivotnykh imeni A.N. Severtsova
Akademii nauk SSSR)

PRESENTED:

By I.I. Shmal'gauzen, Academician, April 23, 1957

SUBMITTED:

April 19, 1957

AVAILABLE:

Library of Congress.

Fertilization in acipenserid fishes. Report No.1: Fusion of gametes.
TSitologiya 1 no.5:510-526 8-0 '59. (MIRA 13:2)

1.Laboratoriya eksperimental'noy embriologii Instituta morfologii
zhivotnykh AN SSSR, Moskva.

(FERTILIZATION (BIOLOGY)) (STURGEONS)

GINZBURG, A.S.

Blocking of polyspermy in the fertilization of sturgeon and salmon
eggs and the role of cortical granules (alveoles) in this process.
Zhur. ob. biol. 21 no.6:419-425 N-D '60. (MIRA 14:1)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR,
Moskva.
(FERTILIZATION (BIOLOGY)) (FISHES--PHYSIOLOGY)

GINZBURG, A.S.

Blocking mechanism of polyspermy in echinoderms. Dokl. AN SSSR
152 no.2:501-504 S '63. (MIRA 16:11)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
Predstavleno akademikom Yu.A.Orlovym.

*

DETLAF, T.A.; GINZBURG, A.S.

Acrosomal reaction in sturgeons and the role of calcium
ions in the coupling of gametes. Dokl. AN SSSR 153 no.6:
1461-1464 D '63. (MIRA 17:1)

1. Institut morfologii zhivotnykh im. A.N. Severtsova
AN SSSR. Predstavleno akademikom I.I. Shmal'gauzenom.

BORSUK, R.A., red. (Moskva); BOCHAROV, Yu.S., red. (Moskva);
GINZBURG, A.S., red.; YEMEL'YANOV, S.V., red.; LANGE,
A.B., red.; LARIONOV, V.F., red.; MANUILOVA, N.A., red.;
MATVEYEV, B.S., red.; PODDUBNAYA-ARNOL'DI, V.A., red.;
POTEMKINA, D.A., red.; TRANKOVSKIY, D.A., red.; USTINOVA,
Yo.I., red.; SHMIDT, G.A., red.; SHREDEL, V.E., red.;
NECHAYEVA, Ye.G., red.

[Problems in modern embryology] Problemy sovremennoi embriologii. Moskva, Izd-vo Mosk. univ., 1964. 565 p.

(KIRA 17:5)

L 38722-86

ACC NR: AP6014152

(A)

SOURCE CODE: UR/0114/65/000/012/0006/0009

AUTHOR: Ginzburg, A. Z. (Engineer)

ORG: None

TITLE: Use of Weibull distribution for calculating the reliability of diesel components

SOURCE: Energomashinostroyeniye, no. 12, 1965, 6-9

component life expectancy, mechanical failure,

TOPIC TAGS: statistic distribution, engine piston, engine cylinder, engine reliability, reliability engineering, marine engine, diesel engine/ 5D50 diesel engine

ABSTRACT: Calculations based on Weibull distribution are proposed for determining the rate of failure of various diesel components since this distribution law takes account of the three cases encountered in operational practice: 1. A reduction in rate of failure with time (for parts which fail during the break-in period), 2. An increase in rate of failure (for the majority of components) and 3. A relatively uniform distribution of rate of failure throughout the entire service life of the engine. Statistical tests on components of various marine diesel engines show entirely satisfactory agreement between the empirical and theoretical distribution for the service life of the components. Curves are given showing the reliability characteristics for some of these components. Data on the 5D50 diesel engine used in whale-

Cord 1/2

UDC: 621.436:621.3.019.32.001.24

L 38722-66

ACC NR: AP6014152

boats show an average piston lifetime of 12800 hours while the average lifetime of cylinder sleeves in this engine is 8870 hours. The rate of failure for pistons shows a continuous increase with time of service due to thermal stresses caused by irregular operating conditions during whaling runs and impairment of piston rings. The proposed reliability calculations may be used to set up preventative maintenance schedules on the basis of predicted component failure. Orig art. has: 2 figures, 5 tables, 9 formulas.

SUB CODE: 14, 21/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

ZVEGINTSEVA, G.B.; GINKZBURG, B.G.; KORCHILOVA, Ye.Ye.; DAVILOVA, Z.I.;
DAVANKOV, A.B.; ZUBAKOVA, L.B.

Recovery of phenol from sulfate liquor wastes of a phenol
sulfonation plant by means of pyridine-containing anion
exchangers. Zhur. prikl. khim. 38 no.5:1102-1105 My '65.
(MIRA 18:11)

L 24720-66 ENI(M)/ENP(J) IJP(8) RM

ACC NR: AP6009511

SOURCE CODE: UR/0413/66/000/005/0020/0021

AUTHOR: Ivanova, V. A.; Genkin, N. D.; Vorob'yev, V. D. Ginzburg, B. G.; Zharavin, K. N.; Korchilava, Ye. Ya.; Savost'yanova, N. G.

ORG: none

TITLE: Preparation of Captax-2-mercaptobenzothiazole. Class 12, No. 179306. announced by the Scientific Research Institute of Organic Semifinished Products and Dyes and the Berezniki Plant of Aniline Dyes (Nauchno-Issledovatel'skiy institut organicheskikh poluproduktov i krasiteley i Bereznikovskiy anilinokrasochnyy zavod)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 20-21

TOPIC TAGS: captax, mercaptobenzothiazole, aniline, aniline dye

ABSTRACT: An Author Certificate has been issued describing a method for preparing Captax-2-mercaptobenzothiazole by melting aniline, sulfur, nitrobenzene, carbon bisulfide at elevated temperatures and pressure, followed by dissolving the melt in a water solution of alkali hydroxide or milk of lime, purifying the solution obtained and separating the product. To improve the quality of Captax, decontaminate the waste water and make it possible to use the solution

Card 1/2

UDC: 547.789.6'2.07

L 24720-66

APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3"

ACC NR: AP6009511

of the alkali Captax melt for the production of sulfuramides, the purification is conducted by extraction with benzene polychlorides, chlorobenzene, benzene, or their water emulsions, followed by removal of the residue of the solvent by conventional methods. [LD]

SUB CODE: 11/

SUBM DATE: 08Aug64/

Card 2/2 fv

Ginzburg, B.I. 17-7-6/22
AUTHORS: Ginzburg, B. I., Vulykh, A.M., Litvinenko, I.I. and
Elisenko, D. G.

TITLE: Mechanical Gland sealing of hot-steam valve turner.
(Mekhanicheskoye zashchitnoye ustroystvo dlya
verdushkono-zapiratel'nykh).

PERIODICAL: Metallurg, 1958, No.3, pp. 7-10 (USSR).

ABSTRACT: The authors describe how at the Lenin Petrovskiy
(Lenin Petrovskogo) works, where lack of space prevents
the use of standard isolating devices for the Cooper
valves, a mechanically clamped seal with intermediate
connecting pipe and lid was developed and introduced.
The main shaft is moved with a cam and the joint
is liberally greased. At the end of the "on" stroke
the connecting pipe is moved up and the lid
is tilted on.
There are 3 figures.

ASSOCIATION: Petrovskiy Works. (Zavod im. Petrovskogo).

AVAILABLE: Library of Congress.

Card 1/1

ALEKSANDROV, V.Ye.; ARTSIMOVICH, G.V., kand.tekhn.nauk; GINZBURG, B.I.,
gornyy inzhener

Complete use of mining bore bits. Ugol' Ukr. 7 no.10:27-28
0 '63. (MIRA 17:4)

1. Nachal'nik upravleniya byuro vzaimnykh raschetov Donetskogo
soveta narodnogo khozyaystva (for Aleksandrov). 2. Institut
sverkhtverdykh materialov Gosplana UkrSSR (for Artsimovich,
Ginzburg).

MARKET, V.N., kand. tekhn. nauk; GINZBURG, B.I., inzh.

Prices for diamond powders and synthetic diamond tools. Mashino-
stroenie no.3:96-97 My-Je '64.

(MIRA 17:11)

BOGOMAZ, D.L.; GINZBURG, R.I.

Economic efficiency of the use of synthetic diamonds in grinding
and lapping hard-alloy cutting tools. Mashinostroitel' no.10:
24-25 0 '64. (MIRA 17:11)

BAKUL', V.N., kand.tekhn.nauk; ZAKHARENKO, I.P., kand.tekhn.nauk; GINZBURG, B.I.,
inzh.

Introducing synthetic diamonds in the industry of the Ukrainian
S.S.R. Mashinostroenie no.4:38-41 J1-Ag '65.

(MIRA 18:8)

CINCEUR, R.I.; (SHEPHERD)

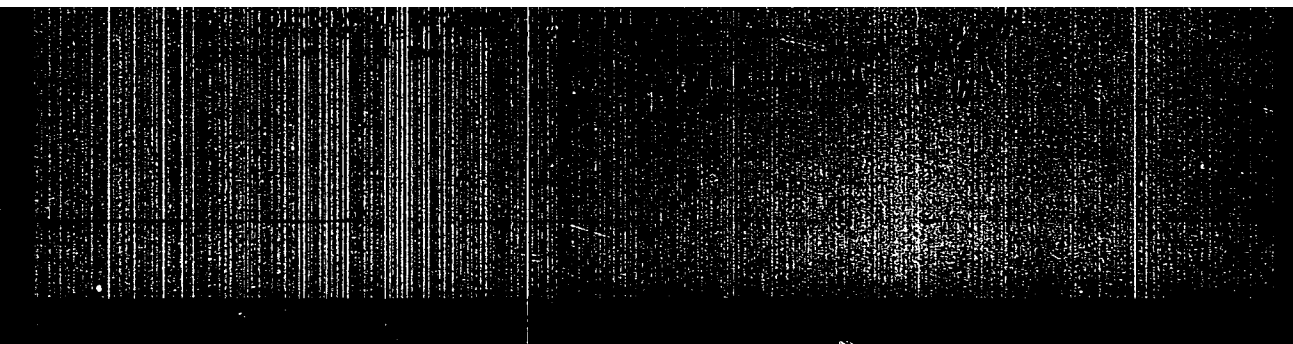
Performance of
10 no. 7:20.1

GINZBURG, B.L.

Epidemiologic peculiarities of diphtheria in Vitebsk District.
Zdrav. Belor. 5 no.2:43-44 F '59. (MIRA 12:7)

1. Iz Vitebskoy rayonnoy sanepidstantsii.
(VITEBSK DISTRICT--DIPHTHERIA)

"Calculation of Potential and Velocity of Flow Around a Grid of Circular
Cylinders by a Plane Parallel Flow." Trudy Ts KTI 18 (1950)



USSR/Mathematics - Numerical Computations

Card 1/1

Author : Ginzburg, B. L.

Title : Formulas for numerical quadrature that are most convenient in application.

Periodical : Usp. mat. nauk, 9, No 2(60), 137-142, 1954

Abstract : Treats quadrature formulas, which were found as early as 1950 by the author, in the following form:

$$\int_{-1}^1 f(x) dx = 2 \sum A_i f(x_i) + R_i$$

where the factor 2 (the length of the interval makes the sum of coefficients A_i equal to unity. Latest reference: B. L. Ginzburg, "Application of general formulas of numerical quadrature to computation of hydrodynamic lattice, "Trudy LPI [Works of the Leningrad Polytechnic Institute], No 2, 1953.

Submitted : November 22, 1952

GINZBURG

APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3"

USSR/Mathematics - Bibliography

FD-1186

Card 1/1 Pub. 118-27/30

Author : Ginzburg, B. L. (reviewer)

Title : Review of the book 'Chislennyye metody matematicheskogo analiza'
[Numerical methods of mathematical analysis], Sh. Ye. Mikeladze,
State Technical Press, 1953, 528 pp, 4000 copies, 21 rubles

Periodical : Usp. mat. nauk, 9, No 3(61), 274-276, Jul-Sep 1954

Abstract : Five main divisions of the book: Finite differences and sums (I-IV, XIX); Interpolation and numerical differentiation (VI, X-XII); Numerical integration and summation (XIII-XVI); Approximation and method of least squares (V, VII-IX); Interpolation, numerical integration and summation of functions of many variables (XVII-XVIII). The reviewer recommends the book as a reference for those already familiar with applied mathematics, but not as a textbook for students. He states that in quantity this book exceeds all other similar books in Russian.

Institution :

Submitted :

GINZBURG, B.L., inzhener.

Numerical method for checking the evenness of runner blades
of hydraulic turbines. Вnergomashinostroenie no.2:19-24 7
'56. (Hydraulic turbines--Blades) (MLRA 9:6)

16(1)

FRANK I. BOOK EXPLOITATION 80V/2508
 Matematicheskoye prosvetsheniye: matematika, 1979 prepodavaniye, prilozheniya i zadaniya, 777. 1 (Mathematical Education, Moscow, Gosizdat, 1979. 15,000 copies printed.)

Ed.: I.M. Bronshteyn, Editorial Board of Series: I.M. Bronshteyn, A.I. Markushevich, I.M. Yaglom, Tech. Ed.: S.M. Akhmanov.

PURPOSE: This book is intended for persons without an extensive mathematical education who are interested in trends in contemporary mathematics. The book may be useful to high school mathematics teachers.

COVERAGE: The book consists of articles, reviews, and other methodological reports, some of which are translations from other languages. The state of modern mathematics is covered, including applications, history, teaching of mathematics in schools, and mathematical developments in the USSR and abroad. One section deals with scientific and pedagogical life in the USSR and another contains reviews of certain mathematical publications. Some mathematical background is necessary to understand the book; certain articles require a knowledge of higher mathematics.

Mathematical Education; (Cont.)

80V/2508

III. SCIENTIFIC-METHODOLOGICAL REPORTS
 (Teaching Experience and Pedagogical Experimentation)

Armanovich, I.O., and S.I. Zetel'. On an Approximation of Graphs of Functions by Curves of the Second Order. [Conics] 179
 Gradstein, I.S. (Deceased) On One Sufficient Test of Indefinite Integrals Turning to Zero 199
 Segal, B.I. On the Local Limit Theorem in Probability Theory 199
 Tsekhe, K. (Hungary) Remarks on the Theory of Geometric Constructions 193

Brief Reports:

1. Baik, M.B. Computing a Sum by Weighting 197
 2. Ginzburg, B.I. Simplification of Multiplication from Left to Right 200
 3. Kuznetsov, A.V. A Study of the Roots of a Cubic Equation 207

Card 5/8

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

GINZBURG, B.L.

"Dictionary of geographical names" by M.S. Bodnarskii. Reviewed
by B.L. Ginzburg. Geog. v shkole 22 no.2:90-91 Mr-Apr '59.
(MIRA 12:6)

(Geography--Dictionaries)
(Bodnarskii, M.S.)

GINZBURG, B.L.

"The World's Largest Cities"

Cities of the world with a population of more than one
million. Vop.geog. no.45:246-252 '59. (MIRA 12:5)
(Cities and towns)

SHIROKHIKH, F.T.; GINZBURG, B.L.-----

Strengthening the material base of the public health system in a task for all. Zdrav. Bel. 7 no. 4:18-20 Ap '61. (MIRA 14:4)

1. Predsedatel' ispolkoma Vitebskogo rayonnogo Soveta deputatov trudyashchikhsya (for Shirokikh). 2. Glavnyy vrach Vitebskogo rayona (for Ginzburg).

(VITEBSK DISTRICT—PUBLIC HEALTH, RURAL)

GINZBURG, B.M.

Immunogenic properties of serum from psoriasis patients.

Shor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 4:130-132 '54

(MIRA 11:7)

(PSORIASIS)

(IMMUNITY)

GINZBURG, R.M.

Use of human complement in the Wasserman test. Sbor.nauch.rab.
Bel.nauch.-issl.kozhno-von.inst. 4:221-226 '54 (MIRA 11:7)
(SYPHILIS--DIAGNOSIS--WASSERMAN REACTION)

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; GASPARYAN, K.A.; VOROB'YEV, V.I.

Effect of the load on the transition order-disorder in native
collagen fibers. Biofizika 10 no.5:735-742 '65.

(MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad i
Institut tsitologii AN SSSR, Leningrad.

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; VOBOLEYEV, V.I.

Free diagram of collagen and the interpretation of the heat of
order-disorder transition in water. Dokl. AN SSSR 195 n.1:11/9-
152 N '65. (MIRA 18:10)

1. Institut tsitologii AN SSSR i Institut biokhimiologii
soyedineniy AN SSSR. Submitted April 20, 1965.

GINZBURG, B. M. and KONOVOLO, B. P.

"Forecast Methods of Ice Cover Breaking of Ob Yenisey".

Tr. Tsentr. in-ta, Prognozov, No 40, pp 56-61, 1955.

The causes of cracking of the ice cover of rivers flowing from the south to the north are analyzed. Observations of positive air temperatures are considered essential. (RZhFiz, No 11, 1955)

SO: Sum No 884, 9 Apr 1956

GINZBURG, B.M.

Long-range forecasting method for freezing and opening of rivers.
Meteor. i gidrel. no.2:10-14 F '56. (MLRA 9:6)
(Ice on rivers, Lakes, etc.)

"APPROVED FOR RELEASE: Thu
APPROVED FOR RELEASE: Thu:
GINSBURG, B.M.

2906/129

INTERPOLAR POLYMERIZATION

9(7)

Moore, Federal Tax Institute Incorporated

Эксперты гидрогелистических процессов (Проблемы в гидрогелистическом процессе) Москва, Гидрометцентр (отд.) 1999. 73 с. (Серия: Изд. Труды, вып. 20) 560 экз. тираж.

Sponsoring Agency: **WGBH. Glendale Community College Library.**

Ed. (title page): A. H. Mathew; Ed. (Zarits book): V. I. Zaritskova; Zash.
Ed.: I. M. Sakhin.

FORTRAN; This issue of the Institute's Transactions is intended for hygienists engaged in forecasting work.

NOTE: This collection of articles discusses methods used in hydrological investigations. Publications reflecting the present-day status of rivers are reviewed. The importance of forecasting the hydrological regime of rivers for planning and its operation is stressed. Extended forecasting of the hydrological regime of estuaries and the ocean is discussed. Extended forecasting of the hydrological regime of rivers is discussed. So predictions are mentioned. The authors accompanying individual articles.

Managing, J. M. Brief Review of Methods Used for Long-Range Forecasting
River Flowing Cycles

Salisbury, T. P. Taking Data Against the Effect of Wind on Water Movement
Swelling in Short-Range Forecasting

36
Mansurov, A. P. Methods of long-range forecasting of the date of appearance
of floating ice on the Volga, Seda, and Shchekna Rivers

Johnny, 22, a Short-Range Pursuivant of Vester Discharge is the Assessor's River

Sanchez, A. Ia. Forecasting the Alamosa River Discharge During the
Spring High-Water Period

Arpakis, V. P. Long-Range Forecast for the Water Volume and Water Consumption During the Spring High-Water Period in the Transcaucasian Region

[illegible]

५३

Sponsoring Agency: Glavmorge upravlentya gidrometeorologicheskimi i
 sluzhby Pri Sviyete Ministerstva SSSR.

Reep. Ed. V.A. Uryayev; Ed. V.S. Protopopov; Tech. Ed. M.I.
 Zaynina.

PURPOSE: This work is intended for meteorologists, hydrologists, and
 hydrophysicists; particularly those engaged in the study of snow
 and ice and evaporation processes.

CONTENTS: This book contains papers on hydrophysics which were pre-
 sented and discussed at the Third All-Union Hydrological Conference
 in Leningrad, October 1957. The Conference published 10 volumes
 on various aspects of hydrology of which this is number 3. The
 editorial board in charge of the series includes: V.A. Uryayev
 (Chairman), O.A. Alekin, Ye.V. Blinnyak (deceased), O.M. Borovskiy,
 M.A. Velikanov, L.K. Davydov, A.P. Domanitskiy, G.P. Kalinin, S.M.
 Krut'kiy, B.I. Kudelin, L.P. Mandin, M.P. Menzel, O.P. Spol'ts,
 I.V. Popov, A.K. Proskuryakov, D.I. Sokolov, O.S. Spol'ts,
 A.I. Chebotarev, and others. This volume is divided into
 two sections. The first contains reports from the subsection
 for the study of evaporation processes, and the second contains
 reports from the snow and ice subsection. References accompany
 each article.

Kolokolnikov, I.G. [Professor, Doctor of Technical and Mathematical
 Sciences and A.A. Pivovarov [Candidate of Physical and Mathemat-
 ical Sciences] Computing the Rate of Autumnal Cooling Along a
 River 270

Braslavskiy, A.P. [Candidate of Technical Sciences, OOI Leningrad]
 Computing the Ice Regimen of the Northern Kazakhstan Lakes 278

Fanov, B.P. [Docent, Candidate of Geographical Sciences, LOMI
 Leningrad] Long-range Changes in the Ice Break-up and Freeze-up
 Times of Rivers and Lakes and the Question of Extra Long-range
 Forecasting 287

Ginsburg, B.M. [Candidate of Technical Sciences, TsIP Moscow]
 Determination of the Method of Long-range Forecasting of Ice
 Break-up on Rivers 296

Makarevich, T.M. [Candidate of Geographical Sciences, OOI Leningrad]
 Unstable Ice Regimens on Rivers and Methods for Forecast-
 ing 302

Kachenkova, Ye.I. [Candidate of Geographical Sciences, TsIP
 Moscow] Long-range Forecasts of the Time of Ice Appearance on
 Siberian and Far Eastern Rivers 309

Fronin, A.G. [Candidate of Geographical Sciences, LOMI Leningrad]
 Atlantic Ocean Effect on the Type of Ice Cover and the Time of
 Ice Break-up for the Northwestern NSRAN Rivers 313

Plotnitskiy, V.K. [Candidate of Technical Sciences], and M.P. Vise-
 gradov [Candidate of Geographical Sciences] Basic Means for De-
 veloping a Method of Long-range Forecast of Freeze-up and Ice
 Clearance Times in Reservoir Projects 320

Kononov, I.M. [Professor, Doctor of Technical Sciences] V.V.
 Balunin [Docent, Candidate of Technical Sciences], and M.I. Ma-
 kashova [Engineer, LII] Basic Problems in the Development
 of Ice Engineering 326

Ryaznikov, M.V. [Chief Engineer, Osk] An Attempt to Use Solar
 Radiation for the Needs of Water Transportation 333

Gromsh, D.G. [Engineer, Teploelektroproekt, Moscow] Regulating
 the River Discharge by Ice Reservoirs 341

GINZBURG, B.N.

Brief survey of methods used in long-range forecasting of the
break-up of ice and freezing of rivers. Trudy TSIP no.90:3-
24 '59. (MIRA 12:8)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.; BALASHOVA, I.V.

Methods of calculating and forecasting the breakup of reservoirs.

Trudy TSIP no.100,3-64 '60.

(MIRA 14:5)

(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Method for long-range forecasting of the opening of rivers in the
central regions of the European part of the U.S.S.R. Trudy
TSIP no.114:36-44 '61. (MIRA 14:10)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Characteristics of tensile testing with breaking machines.
Plast.mussy no.3:49-53 '64. (MIRA 17:3)

ACCESSION NR: AP4045026

S/0191/64/000/009/0047/0049

AUTHOR: Ginzburg, B. M., Kopy*lova, Ye. L.

TITLE: Temperature dependence of the mechanical properties of extruded Penton films

SOURCE: Plasticheskiye massy*, no. 9, 1964, 47-49

TOPIC TAGS: bischloromethyloxacyclobutane, polymer strength, polymer elongation, polymer film, polymer extrusion, thermoplastic polymer, polymer viscosity, Penton, Pentoplast

ABSTRACT: A new thermoplastic material, Penton (polymer of 3,3-bis(chloromethyl)-oxacyclobutane), was investigated in the form of extruded films. First, however, the mol. weight was determined by the reduced viscosity of a 0.5% Penton solution in cyclohexanone at 293K. The viscosity of one batch was 2.53 dl/g (mol. wt. above 200,000) and that of the other was 0.93 dl/g (mol. wt. about 80,000). The films were extruded from granulated material at 483K, the temperature of granulation being 463K. The slight variation in viscosity of Penton during extrusion is tabulated. The temperature dependence of the yield point, tensile strength and relative elongation at break was then investigated over a temperature range of 193-438K. The thickness of the test strips was 0.05-0.10 mm and the experiments were carried out on a Schopper tester of the type FP-3.

Card 1/4

ACCESSION NR: AP4045026

Four temperature ranges can be distinguished on the basis of the curves shown in Fig. 1 of the Enclosure. At low temperatures, the mechanical properties change only slightly. In the second temperature range (275-300K), greater changes occur, especially for elongation. In the third temperature range (296 - 428K) the elongation increases considerably, almost linearly with temperature, but the yield point and strength decrease. Finally, over a temperature range of 423-438C, all the mechanical properties vary considerably. The temperature dependence of the mechanical properties of samples cut in the longitudinal and transverse directions was qualitatively the same. In the transverse direction, the brittleness temperature shifted toward higher temperatures ($299 \pm 2K$), the strength decreased slightly and the elongation at break increased slightly near 423K. The temperature dependence of these properties for Penton plastics with a reduced viscosity of 0.9 dl/g showed the same characteristics in the extrusion direction. Great variation in the data for Penton plastics could only be found near the temperatures of brittleness and melting. Below these temperatures, the mechanical properties of the film are comparable to those of cast Penton, and above them, the properties are improved. "The authors are indebted to A. V. Kupfer for the initiation of this investigation, the supply of the polymer samples and valuable comments. They also thank A. V. Fedeyeva for participating in the evaluation of this work and V. A. Denisova for helping to carry out the experiments. Orig. art. has: 4 figures and 1 table.

ACCESSION NR: AP4046026

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: MT

NO REF SOV: 002

OTHER: 004

ACCESSION NR: AP4045026

ENCLOSURE: 01

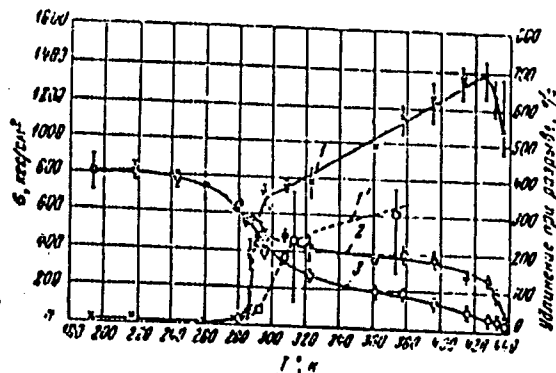


Fig. 1 - Temperature dependence of the mechanical properties of Pentoplast with $\eta = 2.5$ dl/g (in the extrusion direction): 1 - relative elongation at the break; 2 - tensile strength; 3 - yield point during extension; 1' - relative elongation at the break of Penton cast under pressure (according to Sandiford).

G'W' RURE, S.M., D.L.T., Y.M.C.

Temperature dependence of the polymerization of extracted
DNA made from penton's plastic. First, May 1964.

(MIRA 17:10)

ACC NR: AP6006982

SOURCE CODE: UR/0190/66/008/002/0278/0281

AUTHORS: Ginzburg, B. N.; Korshavin, L. N.; Frankel', S. Ya.; Layus, L. A.; Adrova, N. A. 42

ORG: Institute of High-Molecular Polymers, AN SSSR (Institut vysokomolekulyarnykh soedineniy AN SSSR) 39 B

TITLE: Crystallinity of poly-2,2'-octamethylene-5,5'-dibenzimidazole¹

SOURCE: Vysokomolekulyarnyye soedineniya, v. 8, no. 2, 1966, 278-281

TOPIC TAGS: x ray diffraction study, crystalline polymer/ URS-501 x-ray diffraction apparatus, GUR-3 goniometer 28

ABSTRACT: X-ray diffraction study of freshly prepared fibers and films of poly-2,2'-octamethylene-5,5'-dibenzimidazole (I) disclosed a crystalline structure of high order for that polymer, in spite of earlier observations to the contrary by the authors as well as by other workers (A. A. Isyneyev, V. V. Kurashov, V. V. Korshak, T. M. Frunze, and N. Sh. Aldarova, Izv. AN SSSR, Otd. khim. n., 1963, 2019; L. A. Layus, M. I. Bessonov, N. A. Adrova, and M. M. Koton. Plast. massy, 1965, No. 8, 34). The x-ray diffraction study was performed using instrument URS-501 with goniometer GUR-3 adjusted for measurements at small angles. It was established that a 3-hr thermal treatment at 160°C results in almost total amorphization of the structure, as can be seen in Fig. 1. However, it also leads to a two-fold rise of tenacity and a

Card 1/2

UDC: 678.01:53+678.6

L 23328-38

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CIA-RDP86-00513R000515120013-3
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ACC NR: AP6006982



Fig. 1. Low angle x-ray diffraction on fibers (meridional direction):
1 - freshly formed;
2 - treated at 160C for 3 hours.

five-fold rise in the elasticity modulus. Relaxation mechanisms and structural processes related to the mobility of the heterocyclic sections of the chain of I, as well as the direct influence of formic acid, are discussed as probable causes of the crystallinity in freshly formed I. The authors express their gratitude to Ye. M. Pokrovskiy and K. K. Kalayn'sh for taking the IR spectra and to A. I. Slutsker for evaluation of the results. Orig. art. has: 8 figures and 1 formula.

SUB CODE: 07/8 SUBM DATE: 15Mar65/ ORIG REF: 007 OTH REF: 003

Card 2/2 FV

L 22492-66 ENT(M)/BWP(1)/T RM
ACC NR: AP6009639

SOURCE CODE: UR/0181/66/008/003/0647/0650

AUTHOR: Ginzburg, B. M.; Sorokin, A. Ya.; Frenkel', S. Ya.

ORG: Institute of Macromolecular Compounds, AN SSSR, Leningrad (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Self-orientation of structural elements during heat treatment of fibers of polyvinyl alcohol

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 647-650

TOPIC TAGS: polyvinyl alcohol, polymer structure, x ray diffraction analysis, organic crystal, crystal orientation

ABSTRACT: This is a continuation of earlier work by one of the authors (Frenkel', DAN SSSR v. 162, 836, 1965) dealing with multistage self-ordering of polymers. In the present study, on the basis of the analogy between solid and liquid states, the authors investigate the increase in the orientation of crystallites, resulting from a short-duration heating of previously oriented freshly formed fibers of polyvinyl alcohol, which do not as yet have high crystallinity. Most earlier experimental studies of orientation at increased temperature were made in the presence of mechanical stretching. The authors studied a fiber of polyvinyl alcohol produced in acetone and subjected to some orientation during the shaping process itself. The crystallite orientation was studied by x-ray diffraction in apparatus in which

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L 22492-66

ACC NR: AF6009639

the sample could be rotated about the axis of the primary beam. X-ray patterns showed that in the freshly formed fiber the crystallites are full of defects and are small in size. After placing the fiber for three minutes in a thermostat heated to 225°C (for a temperature close to the melting point), the fiber shrunk by approximately 30%, lost approximately 10% of weight, and the azimuthal half angle dropped from ~17° to 12.5° after one minute heating. After three minutes heating the results were ~30, ~34%, and 6.5° respectively. The orientation of the crystals is greatly increased, although many extraneous factors make an unambiguous interpretation of the degree of orientation difficult. This was accompanied by a strong shrinking of the fiber, thus evidencing a disorientation of its amorphous part. On the basis of the result the authors advanced the hypothesis that the orientation of the crystallites in the fibers has a thermodynamic character, i.e., the self-orientation of the supermolecular structure elements occurs in the solid phase. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 20,07/ SUBM DATE: 23Jun65/ ORIG REF: 004/ OTH REF: 011

Card 2/2 BK

USSR/Medicine - Public Health,
Administration

Sep/Oct 48

Medicine - Public Health, Education

"The Experiment in Improving the Qualifications of
Public Health Directors in Rayons," B. S. Ginzburg,
Moscow, 3 1/2 pp

"Sov Zdravookhran" No 5

Chair of Pub Health Orgn at Kazan State Inst for
Specialized Training of Doctors has considerable ex-
perience in training public health organizers.
Describes courses.

34/49T67

Teaching public health organization in medical institutes and field
practice for students. Zdrav. Ros. Feder. 2 no.1:34-38 Ja '58.

(MIRA 11:2)

1. In kafedry organizatsii zdavookhraneniya i istorii meditsiny
(zav. - prof. B.S.Ginsburg) Chitinskogo meditsinskogo instituta
(dir. - dotsent Yu.D.Ryzhkov)

(PUBLIC HEALTH--STUDY AND TEACHING)

GINZBURG

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CIA-RDP86-00513R000515120013-3
CIA-RDP86-00513R000515120013-3"

Author: Ginzburg, I. I.

Title: The theory and determination of piston rings. (teoriia i raschet porshcheykh kolts.) 122 p.

City: Moscow

Publisher:

~~Publication~~: State Printing House of the Machine Construction Literature.

Date: 1945

Available: Library of Congress

Source: Monthly List of Russian Accessions, V. 3, no. 12, March 1951